Unit 2 Practice Questions – THE CINEMA CHAIN

Part A Set Task Brief

You are advised to spend 10 minutes reading the Task Scenario and the activities you are to complete.

You may make notes and/or highlight information to use in the completion of the documents you need to produce for your task.

Scenario

You have been asked to create a database for the East Berkshire Cinema Multiplex. Currently all records are stored on a spreadsheet.

The Cinema would like to be able to store and report data on how the cinema is used. The cinema has two screens, one has 500 seats, the other has 400 seats

The cinema has several films showing and it records the different types of film.

Films belong to categories U, PG, 12, 15 and 18.

When people go to the cinema booking system they can:

- Pick the Screen Name and Film Title
- Pick the date of the performance
- Book tickets. The minimum number booked is 1 and the maximum booked is 5
- Pick the seat type – standard seating is £10, Luxury seating is £15, Premium is £20

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The Cinema Chain Sample Data

BookingID	ScreenID	FilmID	Booking Date	Film Title	Film rating	Screen Seats	Screen Name	Num Tickets	Seat ID	Seat Type	Seat Price
101	1	27	21/07/2020	Jaws	PG	500	A	4	1	Standard	£10
102	1	27	21/07/2020	Jaws	PG	500	A	4	2	Luxury	£15
103	1	12	22/07/2020	Cars	U	500	A	3	3	Premium	£20
104	2	34	22/07/2020	Up	U	400	B	2	3	Premium	£20
105	2	34	23/07/2020	Up	U	400	B	5	1	Standard	£10
106	2	12	23/07/2020	Cars	U	400	B	5	1	Standard	£10
107	1	48	22/07/2020	Alien	18	500	A	1	1	Standard	£10

Figure 1 Sample Data for the Cinema Chain

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Activity 3: Queries and Report (40 minutes)

Query Evidence.

You will screen print your queries.

Your screen-prints must show:

- the DESIGN view of the queries specified that you have created, including fields and criteria
- the DATASHEET view of the queries specified that you have created.

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Queries – SIMPLE

Query 1

Create a query that shows an alphabetical list of all film titles sorted A – Z.

Show film title and rating.

Query2

Create a query that shows a list of Booking Dates sorted newest first.

Show booking ID, booking date and number of tickets for that booking.

Query 3

Create a query that shows all booking data for the 22/07/2020

This should show the bookingID, booking date, number of tickets.

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Queries – MODERATE

Query 4

Create a query that shows the title, ratings and the dates of the films booked.

It must show ratings and dates only, ordered by film title alphabetically.

Query 5

Create a query to display an alphabetically sorted list of the bookings made on the 22/07/2020.

It must show film name, rating and seat type and seat price only.

Order by seat type A-Z.

Query 6

Create a query to display an alphabetically sorted list of the bookings on the day identified as 23/07/2020 for the screen B with standard seats.

It must show booking ID and film title, film rating, seat type and price only.

The query will be sorted alphabetically by film title.

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Queries – COMPLEX

Query 7

Create a query that will calculate the total number of bookings made on the 22/07/2020.

Display:

- The date
- The number of bookings
- The number of tickets sold

Query 8

Create a query that will calculate the number of bookings of premium seats

Display:

- The number of bookings
- The total cost of the bookings

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Query 9

Create a query that will calculate the total number of luxury tickets sold for Jaws

Display:

- The film
- The total number of tickets sold
- The total cost of the tickets

Query 10

Create a query that will calculate the booking income total for screen B on 23/07/2020

Display

- The date
- The number of bookings
- The seat price
- The total cost of the bookings

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Query 11

Create a query that will display the income from the standard seat sales each day

Your query will display:

- The dates
- The number of standard bookings on that day
- The total number of booked tickets on that day
- The seat price
- The income for that day from standard seating

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Reports

The report must fit on one page.

Evidence your report as screen-prints using the given activity3.rtf template.

Your screen-prints must show:

- the DESIGN view of the report you have created, including grouping and calculations
- the DESIGN view of any queries you have created and used with the report, including fields and criteria
- the DATASHEET view of any queries you have created and used with the report.

Save your report as a PDF to your computer.

You are advised to spend **40 minutes** on this activity.

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Report 1

Create a report that shows the list of screens and their sizes.

You will display in order of capacity, smallest to largest.

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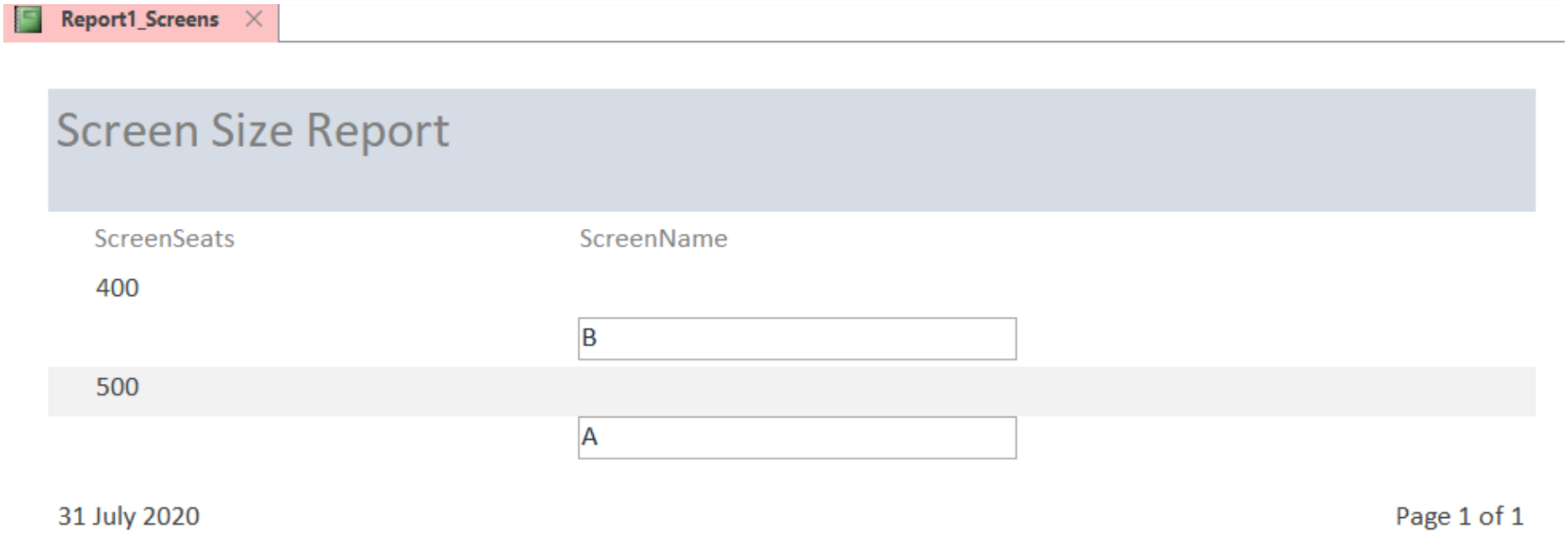

Figure 2 – An example of the report to be generated.

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Report 2

Create a report to display a sorted list of the films showing on the 22/07/2020 and 23/07/2020 with the oldest date first

You will display:

- The film title
- The rating

Your report will count the number of U, PG, 15 and 18 certificate films.

These calculations must be carried out in your report and not any query.

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Figure 3 An example of the report to be generated.

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Report 3 – Seat income Totals for Screen A

Create a report that shows the income totals for the different seat types for Screen A

You will display:

- The date
- The seat type
- The number of tickets sold

Your report will calculate following:

- The income for each seat type on each day
- The total income
- These calculations must be done in your report and not any query.

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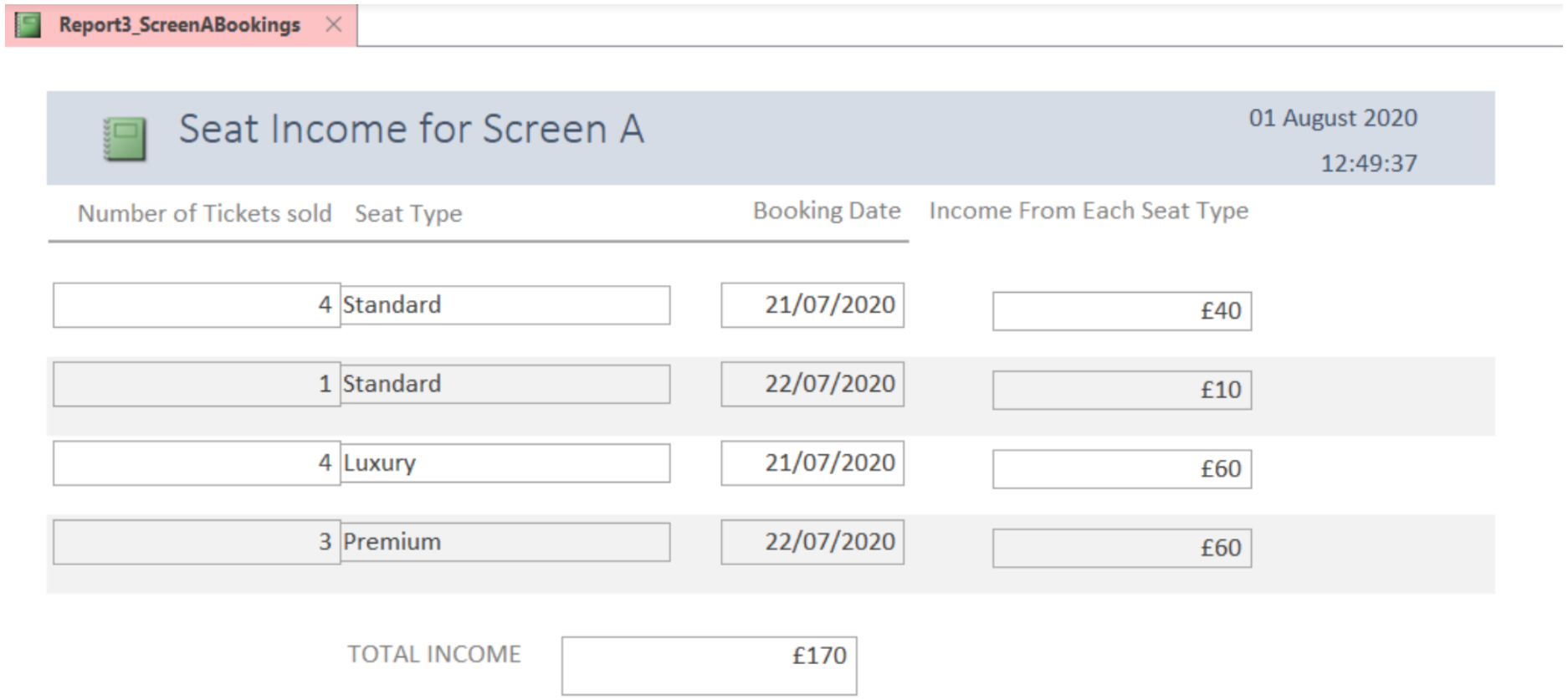

Figure 4 – an example of the report.

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Report 4

Create a report that shows the films for each screen on the 22/07/2020

You will show the films for screen A then screen B

You will display:

- The film title
- The rating
- The date

You will calculate following:

- Number of films shown in on Screen A
- The number of tickets sold for screen A
- The number of films shown on screen B
- The number of tickets sold for screen B
- The number of films shown in total
- The number of tickets sold in total
- These calculations must be done in your report and not any query.

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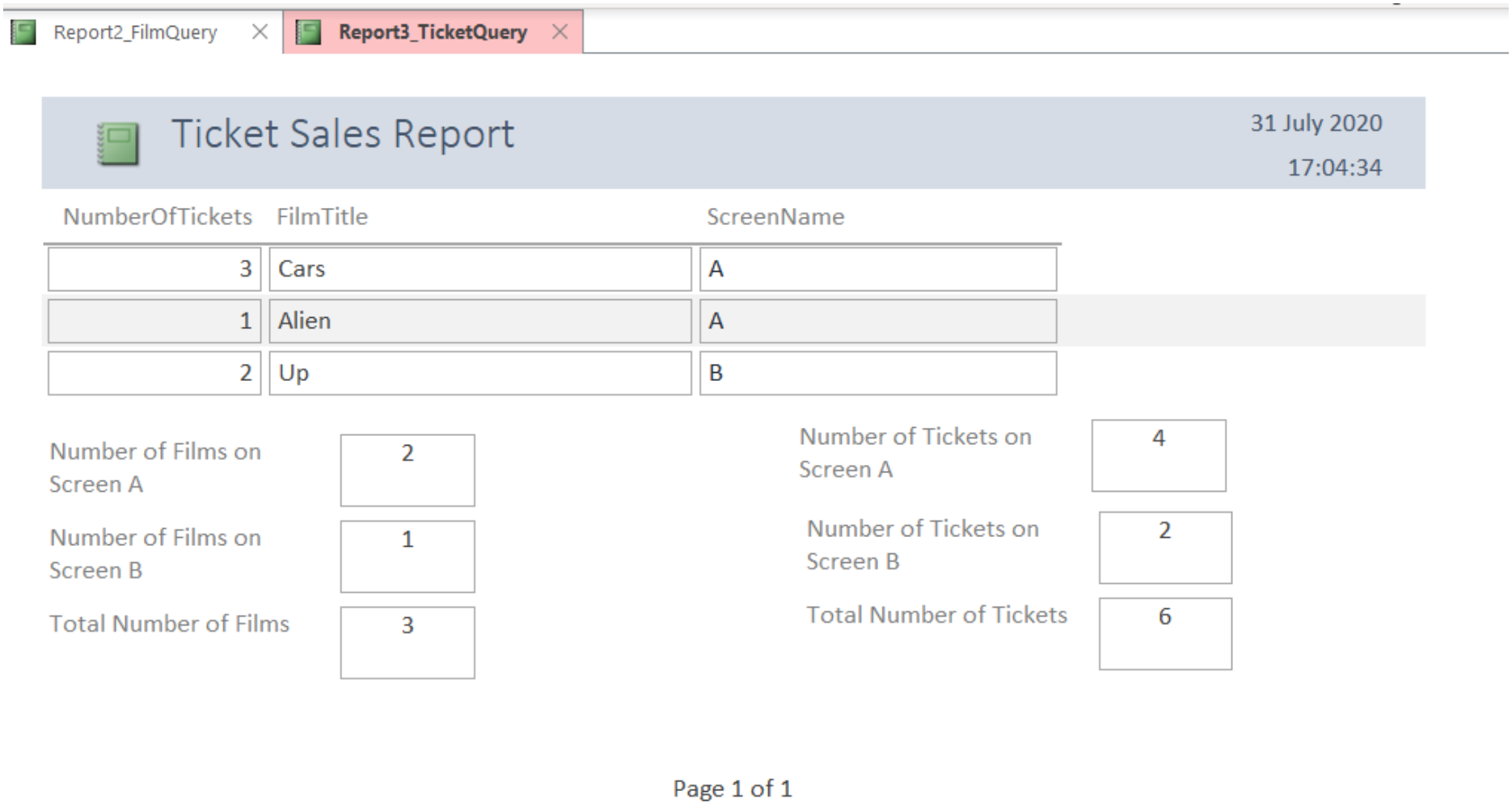

Figure 5 – an example of the report.

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